

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP2004/012502

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 H01J37/02 H01J9/18 H01J37/10

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 694 687 A (GLENN WILLIAM ELLIS) 26 September 1972 (1972-09-26) figures 1,2	1-4, 6, 8, 14, 17, 19
X	US 2 507 331 A (HENRI BRUCK ET AL) 9 May 1950 (1950-05-09) column 2, line 4 - line 8; figure 1	1-4, 6, 8, 14, 17, 19
X	US 6 362 486 B1 (INTO STEPHEN W) 26 March 2002 (2002-03-26) column 3, line 28 - line 49; figure 3	1-4, 6, 14, 18, 19
X	US 2 458 962 A (ERIC SHELTON EDWARD) 11 January 1949 (1949-01-11) column 3, line 47 - line 53; figures 2-5	1-4, 6, 8, 17
		-/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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Date of the actual completion of the international search

17 March 2005

Date of mailing of the International search report

23/03/2005

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 914 532 C (AEG) 5 July 1954 (1954-07-05) page 2, line 28 - line 43; figure 2 -----	1-4, 6, 8, 14, 18, 19
X	GB 2 161 019 A (INT PRECISION INC) 2 January 1986 (1986-01-02) page 4, line 105 - line 122; figure 6 -----	1-4, 6, 8, 14, 18, 19
Y	PATENT ABSTRACTS OF JAPAN vol. 0020, no. 10 (E-006), 25 January 1978 (1978-01-25) -& JP 52 126160 A (HITACHI LTD), 22 October 1977 (1977-10-22) abstract; figure 6 -----	1-4, 14, 18, 19
Y	PATENT ABSTRACTS OF JAPAN vol. 1999, no. 08, 30 June 1999 (1999-06-30) -& JP 11 086767 A (JEOL LTD), 30 March 1999 (1999-03-30) abstract; figures 1a, 1b -----	1-4, 14, 18, 19
A	US 2 581 446 A (ROBINSON CHARLES F) 8 January 1952 (1952-01-08) figures 1,2 -----	1-19

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**INTERNATIONAL SEARCH REPORT**

Information on patent family members

International Application No

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Patent document cited in search report		Publication date		Patent family member(s)		Publication date
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